

OPTIMIZING QUEUING OF VOICE PACKET FLOWS IN A NETWORK

ABSTRACT OF THE DISCLOSURE

A system and method are disclosed for increasing the efficiency with which data is transmitted over a network link. Voice packets are encoded to include header bits that indicate the presence and duration of pauses in the voice transmission. A Network linking device monitors incoming voice packets on a link, checking for the presence of a pause. The linking device also keeps track of all voice connections on the link. When none of the voice connections are active, the linking device increases the size of the maximum allowed transferable unit (MATU), thus fragmenting less data packets than it would have fragmented if a voice connection had been active. Fragmentation is reduced while maintaining sound quality.